



ETERION
Energy

ETERION ENERGY Product Datasheet

Battery LiFePO4: AQ36100

Precautions:

When the battery needs to be connected in parallel or in series each battery shall be fully charged according to the standard charging method before the connection.

Once the battery is fully discharged, it should be recharged promptly. Otherwise the BMS may malfunction due to low voltage, and the battery will be permanently damaged.



Features

High Safety



Cost Efficiency



Drop in
Replacement



Fast Charging



Longer Service
Life



NOMINAL SPECIFICATIONS

Nominal Voltage	38.4V
Nominal Capacity	100 AH
Energy Capacity	3840 Wh
Int Resistance	$\leq 50\text{m}\Omega$ @100%
Efficiency	SOC $\geq 99.5\%$
Max. Modules in Series	2

CHARGE & DISCHARGE SPECIFICATIONS

Voltage Operation Range	32.4-43.8V
Max. Continuous Charge Current	100A
Max. Continuous Discharge Current	100A
Peak Discharge Current	500A (1s)
Recommended Charge Current / A	60A
Recommended Discharge Current / A	100A
Charge Current Cut-Off / A	0.3A

OPERATING CONDITIONS

Cycle Life	≥ 5000
Operating Temperature	Charge: $10^{\circ}\text{C} \sim 50^{\circ}\text{C}$ Discharge: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$
Storage Temperature	$20^{\circ}\text{C} \sim 50^{\circ}\text{C}$
Storage Duration	12 months at 25°C
Communication	Bluetooth APP

MECHANICAL SPECIFICATIONS

Case Material	ABS
Dimension (L*W*H)	523*269*218 mm
Weight	29.5KG $\pm 5\%$
Terminal Type	M8
IP Grade	IP65
Certification	UN38.3/MSDS/CE
Cell Chemistry	LiFePO4

BMS SPECIFICATIONS

Primary Charging Over- Current Protection	Current: $> 60.0 \pm 2.5\text{A}$ Delay Time: $15 \pm 2\text{s}$
Secondary Charging Over-Current Protection	Current: $> 100.0 \pm 2.5\text{A}$ Delay Time: $\leq 3\text{s}$
Primary Discharging Over- Current Protection	Current: $> 100.0 \pm 2.5\text{A}$ Delay Time: $15 \pm 2\text{s}$
Secondary Discharging Over- Current Protection	Current: $> 120.0 \pm 2.5\text{A}$ Delay Time: $\leq 3\text{s}$
Over-Charge Voltage Protection	Voltage: $> 43.8 \pm 0.2\text{V}$ Delay Time: $\leq 3\text{s}$
Over-Discharge Voltage Protection	Voltage: $< 27.9 \pm 0.3\text{V}$ Delay Time: $\leq 3\text{s}$
High Temperature Protection	Charging: $65 \pm 3^{\circ}\text{C}$ Recover: $60 \pm 3^{\circ}\text{C}$ Discharging: $65 \pm 3^{\circ}\text{C}$ Recover: $60 \pm 3^{\circ}\text{C}$
Low Temperature Protection	Charging: $0 \pm 3^{\circ}\text{C}$ Recover: $5 \pm 3^{\circ}\text{C}$ Discharging: $-20 \pm 3^{\circ}\text{C}$ Recover: $-15 \pm 3^{\circ}\text{C}$